Ministry of Northern Development and Mines

Ontario

Mines and Minerals Division

GEOLOGICAL DATA INVENTORY FOLIO

GDIF 536

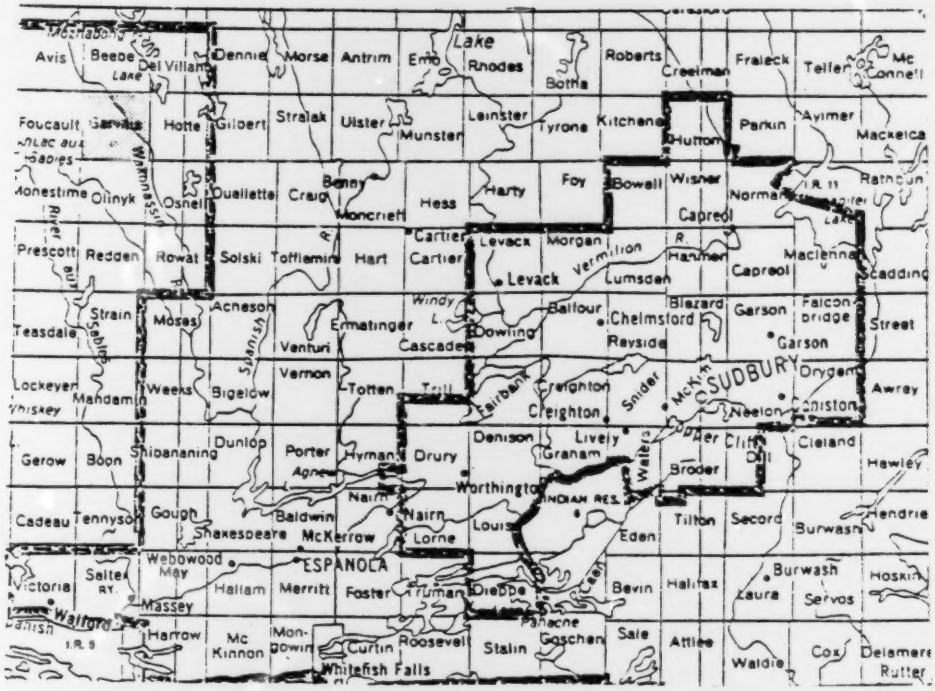
GERVAIS TOWNSHIP

Sudbury Mining Division
41J/16

Compiled by the staff of

the Resident Geologist's Office

SUDBURY



LOCATION MAP

CANADA ONTARIO
Mineral Development
Exploitation Minerale

This project is part of the five year Canada–Ontario 1985 Mineral Development Agreement (COMDA), a subsidiary agreement to the Economic and Regional Development Agreement (ERDA) signed by the governments of Canada and Ontario.

90-02997/

Mining Claim Map Number G.2961

This project was funded under the Canada Ontario Mineral Development Agreement (COMDA), 1985-1990.

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Ministry of Northern Development and Mines does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey 1990.
Gervais Township, Geological Data Inventory Folio
compiled by the staff of the Resident Geologist's Office, Sudbury

Original Compilation by: Jerome, Lucille, January 1989

Date	Page(s) Revised	Revised by

Date	Page(s) Revised	Revised by

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A. Files Index Map (s) ..... Map A-1

B. Exploration Data Map (s) ..... Map B-1

ABBREVIATIONS LIST

A.F.R.O.	Assessment Files Research Office (Toronto)
Ann. Rept. (A.R.)	Annual Report
A.R.I.P	Aggregate Resources Inventory Paper
Bull	Bulletin
C.I.M.M.	Canadian Institute of Mining and Metallurgy
C.J.E.S.	Canadian Journal of Earth Sciences
C.M.J.	Canadian Mining Journal
Econ. Geol.	Economic Geology
E.M.R.	Department of Energy, Mines and Resources
E.P.B.	Earth Physics Branch
G.A.C.	Geological Association of Canada
GC	Geological Circular
GDIF	Geological Data Inventory Folio
Geol.	Geology
Geol. Soc. Amer. Bull.	Geological Society of American Bulletin
GR	Geoscience (Geological) Report
GSC	Geological Survey of Canada
I.L.S.G.	Institute on Lake Superior Geology
IMR	Industrial Mineral Report
I.O.C.	Report of the Iron Ore Committee (1923)
Jour. (or J)	Journal
MDC	Mineral Deposit Circular
M.D.I. (R)	Mineral Deposit Inventory (Record)
Mem	Memoir
MNDM	Ministry of Northern Development and Mines
MNR	Ministry of Natural Resources
MP	Miscellaneous Paper
MRC	Mineral Resources Circular
N.M.I.	National Mineral Inventory
NOEGTS	Northern Ontario Engineering Geology Terrain Study
NTS	National Topographic System
O.B.M.	Ontario Bureau of Mines
O.D.L.F.	Ontario Department of Lands and Forests
ODM	Ontario Department of Mines/Ontario Division of Mines
ODMNA	Ontario Department of Mines and Northern Affairs
OFR	Open File Report
OGS	Ontario Geological Survey
P.R.	Preliminary Report
Prelim. (or P)	Preliminary
R.C.	Royal Commission on Mineral Resources of Ontario (1890)
S.M.D.R.	Source Mineral Deposit Record
SOEGTS	Southern Ontario Engineering Geology Terrain Study
Sum. Rept.	Summary Report

*

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no': if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	Yes	L.J.
2	Assessment Files Research Office, Toronto	N.A.	L.J.
3	OGS/ODM General Index 9 volumes	No	L.J.
4	Catalogue of Airborne Geophysical Surveys (ODM)	No	L.J.
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	No	L.J.
6	ODM Industrial Mineral Reports	No	L.J.
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	No	L.J.
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	No	L.J.
9	Newspaper Clippings File	No	L.J.
10	GSC Index to Publications	No	L.J.
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	Yes	L.J.
12	OGS Index Maps	Yes	L.J.
13	Source Mineral Deposit Records (OGS)	No	L.J.
14	Author - Subject Articles File	Yes	L.J.
15	ODM/OGS Miscellaneous Papers	No	L.J.
16	ODM Geological Circulars	No	L.J.
17	OGS Study Series	No	L.J.
18	ODM Preliminary Reports	No	L.J.
19	ODM Bulletins	No	L.J.
20	ODM/OGS Open File Reports	Yes	L.J.
21	OGS Northern/Southern Ontario Engineering Geology Terrain Studies	Yes	L.J.
22	OGS Aggregate Resources Inventory Papers	No	L.J.
23	OGS Mineral Potential Maps	Yes	L.J.
24	Drill Core Library Catalogue	N.A.	L.J.
25	Theses on File, Sudbury	No	L.J.

*

MINERAL COMMODITIES REFERENCE LIST

anh	Anhydrite
ank	Ankerite
ap	Apatite
arg	Argentite
As	Arsenic
asp	Arsenopyrite
asb	Asbestos
ba	Barite
be	Beryl
Bi	Bismuth
bn	Bornite
Cd	Cadmium
calc	Calcite
carb	Carbonate
cc	Chalcocite
cp	Chalcopyrite
ch	Chert
clay	Clay
Co	Cobalt
cob	Cobaltite
Cu	Copper
cor	Corundum
dol	Dolomite
ep	Epidote
fel	Feldspar
fl	Fluorite (flurospar)
fu.	Fuchsite
gn.	Galena
gt.	Garnet
goe	Goethite
Au	Gold
gf	Graphite
gl	Gravel
gyp	Gypsum
hem	Hematite
Fe	Iron
IF	Iron Formation
jas	Jasper
ky	Kyanite
Pb	Lead
lim	Limonite
Li	Lithium
mgst	Magnesite
mag	Magnetite
mc	Malachite
Mn	Manganese
mb	Marble
mar	Marcasite
ma	Marl
mi	Mica
mo	Molybdenite
Mo	Molybdenum
mon	Monazite
ne	Nephelite (nepheline)
Ni	Nickel
Nb	Niobium
Pd	Palladium
pent	Pentlandite
Pt	Platinum
py	Pyrite
pyl	Pyrochlore
po	Pyrrhotite
q	Quartz
qcv	Quartz carbonate vein
ra	Radioactive minerals
RE	Rare Earths
sd	Sand
sgl	Sand and gravel
ss	Sandstone
scap	Scapolite
shee	Scheelite
serp	Serpentine
sh	Shale
sid	Siderite
si	Silica
Ag	Silver
sl	Slate
sm	Smaltite
sod	Sodalite
spec	Specularite
sp	Sphalerite
spd	Spodumene
s	Sulphides
talc	Talc
Te	Tellurium
th	Thorite
Th	Thorium
ti	Titanite
Ti	Titanium
tour	Tourmaline
W	Tungsten
uran	Uraninite
U	Uranium
verm	Vermiculite
Zn	Zinc
zr	Zircon

ADDITIONS

*

▲ Solid triangles indicate metal and mineral occurrences shown on the accompanying maps.

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MINERAL OCCURRENCES

Ref. Letter on Map	(see Exploration Data Map) Name(s)	Mineralization	REFERENCES IN SMDR-Source Mineral Deposit Record MDC-Mineral Deposits Circular, OGS IMR-Industrial Mineral Report, OGS MDI-Mineral Deposit Inventory NMI-National Mineral Inventory	Additional References and/or Remarks

GERVAIS TOWNSHIP

TYPE OF WORK (see Files Index Map) EXPLORATION FILES		Numbers below represent the year in which the work was done; e.g., 68 for 1968																OTHER DATA IN THIS FILE, OR FOOTNOTES
Ref. No. on Map	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETIC	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETIC	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY	
1	Crossan, P. (Gervais 0010-A1)				75													
2	Crossan, P. (Gervais 0010-B1)				78													

SEE PAGE 14-1...NOTES, FOR ITEMS LISTED BY NUMBER IN THIS COLUMN

DRILLHOLE SUMMARY

Drilling Location Number on Map	(see Exploration Data Map) Company Name (file number)	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
1	Crossan, P. (Gervais 0010-A1)	1	1975	-	90	0	115'		
2	Crossan, P. (Gervais 0010-B1)	2	1978	-	90	0	35'		
3		3	1978	-	90	0	120'		

● —— indicates core stored at Drill Core Library

GERVAIS TOWNSHIP

AIRBORNE GEOPHYSICAL SURVEY DATA

Number on File Index Map(s)	— by — for — year	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing

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GEOCHEMICAL SURVEY DATA

(see Exploration Data Map)

Map Sample Site Reference Number	Type of Survey	Analysis For	By	Reference

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GEOCHRONOLOGY DATA - AGE DATING

Site No. on Map	Method	Material	Reference	Result

GERVAIS TOWNSHIP

AERIAL PHOTOS; MOSAICS; IMAGERY

The following items are available for inspection at the Resident Geologists Office:

(a) Aerial Photographs:

(b) Photomosaics:

(c) Satellite Imagery:

TOPOGRAPHIC MAPS (selected)

scale	year	name and/or number	by
1:50,000	1975	Mohzabong Lake, 41J/16	EMR
1:1,200,000	1987	Surficial Geology of Northern Ontario, Map 2518	OGS
1:100,000	1980	NOEGTS Data Base Map, Bark Lake, Map 5006 NOEGT Study 93, Bark Lake Area	OGS

NEWSPAPER CLIPPINGS FILE (selected)

PAPER	DATE	PAGE	"ARTICLE HEADLINE" OR COMPANY AND/OR SUBJECT

OGS/ODM GENERAL INDEX SEARCH

Words Searched:	Index Volume	Listing:	Report Volume	Part	Page
Airport Lake Crossan, P. Dusty Lake Gervais Township Township "G"					

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Adlington, R.	1982	Sudbury Data Series-Gervais Township	OGS Map P.2537	1"=1/4 mi.
Boissonneau, A.N.	1968	Glacial History of Northern Ontario II. The Timiskaming-Algoma Area	C.J.E.S. Vol. 5	pp. 97-109
GSC-ODM	1965	Aeromagnetic Map-Mohzabong Lake	Map 2258G	1"=1 mi.
Giblin, P.E., Leahy, E.J.	1977	Rocky Island Lake-Biscotasing Sheet (revised)	ODM Map P.237	1"=2 mi.
Giblin, P.E., et al	1979	Sault Ste. Marie-Elliot Lake Geological Compilation	OGS Map 2419	1"=4 mi.
ODM-GSC	1965	Aeromagnetic Map-Blind River Sheet	Map 7068G	1"=4 mi.
Springer, J.	1977	Ontario Mineral Potential, Blind River Sheet and Part of Sault Ste. Marie Sheet	OGS Map P.1513	1:250,000
Thurston, P.C.	1972	Operation Chapleau, General Geology of Shawmere Anorthosite Complex	OFR 5079	Maps P.672, 673,674, 675
Thurston, P.C., Siragusa, G.M. and Sage, R.P.	1977	Geology of the Chapleau Area	GR 157 Map 2352	1:250,000
	1971	Operation Chapleau, Opeepeesway-Rocky Island Lakes Sheet	ODMNA Map P.675	1"=2 mi.

Note No.	NOTES

ADDENDA

CONVERSION FACTORS

Conversion from SI to Imperial			Conversion from Imperial to SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
		LENGTH			
1 mm	0.039 37	inches	1 inch	25.4	mm
1 cm	0.393 70	inches	1 inch	2.54	cm
1 m	3.280 84	feet	1 foot	0.304 8	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	1.609 344	km
		AREA			
1 cm^2	0.155 0	square inches	1 square inch	6.451 6	cm^2
1 m^2	10.763 9	square feet	1 square foot	0.092 903 04	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
		VOLUME			
1 cm^3	0.061 02	cubic inches	1 cubic inch	16.387 064	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
		CAPACITY			
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	4.546 090	L
		MASS			
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	31.103 476 8	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	0.453 592 37	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	907.184 74	kg
1 t	1.102 311	tons (short)	1 ton (short)	0.907 184 74	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	1016.046 908 8	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	1.016 046 908 8	t
		CONCENTRATION			
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy) per ton (short)	20.0	pennyweights per ton (short)
1 pennyweight per ton (short)	0.05	ounces (troy) per ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

***Note:** Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries, published by the Mining Association of Canada in cooperation with the Coal Association of Canada.*

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GERVAIS TOWNSHIP

MAP LEGENDS

A. FILES INDEX MAP

FILE AREAS See pages 4-1,2 .... of text

- [■] Reference number is always inside work area outlined. See listing in text pages.
- [ ] Small area of exploration data
- [ ] File covers whole township or area
- [ ]

B. EXPLORATION DATA MAP

MINERAL OCCURRENCES: See pages 3-1,2.... of text

- [ ] Mineral occurrence at surface, with reference letter
- [ ] Mineral occurrence with shaft, depth given with reference letter
- [ ] Mineral occurrence reported but exact location uncertain, with reference letter
- [ ] Mineralized float with reference letter
- [ ] Mineral occurrence encountered in drilling, with reference letter
- [ ]

DRILLHOLES: See pages 5-1,2.... of text

- [■] Location of single drillhole, with reference number
- [ ] Location of group of closely spaced drillholes, with reference number
- [ ] Drillhole, exact location uncertain, with reference number
- [ ] Property with underground drillholes in this general area, with reference number
- [ ] Property with drillholes which have not been plotted on map, with reference number
- [ ] Reverse circulation drillhole; churn drilling, with reference number
- [ ]

GEOCHEMICAL: See pages 7-1,2....of text

- [ ] Geochemical sample site, with reference number
- [ ] Area of geochemical sampling, with reference number
- [ ]

GEOPHYSICAL ANOMALIES

Airborne Surveys: See pages 6-1,2.... of text

- [ ] AM — Airborne magnetic anomaly
- [ ] Airborne electromagnetic anomaly Length of anomaly along flight line
- [ ] Airborne electromagnetic anomaly Location of anomaly along flight line
- [ ] Airborne electromagnetic anomaly Conductor axis: definite, probable, possible
- [ ] AEM — Airborne electromagnetic anomaly Conductor axis: Location of flight lines uncertain
- [ ] ARA — Airborne radiometric anomaly

Ground Surveys

- [ ] M — Ground magnetic anomaly
- [ ] VL — Ground electromagnetic anomaly (VL - Vertical loop; HL - Horizontal loop VLF - Very low freq.; Turam; JEM - Crone Em - 16)
- [ ] RA — Ground radiometric anomaly
- [ ] IP — Induced polarization anomaly
- [ ] SP — Self potential anomaly
- [ ] AFMAG — Audio-frequency magnetic anomaly (total intensity)
- [ ] R — Resistivity anomaly
- [ ] GR — Gravity anomaly
- [ ]

GEOCHRONOLOGICAL DATA: See page 8 of text

- [ ] Age dating material sampling site, with reference number
- [ ]

MISCELLANEOUS DATA

- [ ] Trenching, pit
- [ ] Rock quarry
- [ ] Adit
- [ ] Open pit
- [ ] Sand and/or gravel pit
- [ ]
- [ ]

MAPS
NOT
FILMED

CARTES
OMISES